

11-Range Digital Battery Tester

OWNER'S MANUAL — Please read before using this equipment.

Your RadioShack Digital Battery Tester is accurate for checking batteries under designated load conditions (see "Specifications"). The tester indicates if a battery is good and the digital bar graph shows the battery's condition. You can test standard carbon-zinc, alkaline, mercury, silver-oxide, lithium, zinc-air, hearing-aid, nickel-cadmium, and nickel-metal-hydride batteries.

Important:

- Completely read this manual before you use the tester.
- This battery tester is for indoor use only.

Caution: To avoid damaging the tester, never connect the test leads to any source of power except batteries within the specified voltage ranges.

SPECIFICATIONS

Range	Load Current Drain	Minimum Voltage for GOOD Display
1.25V AAA/N <small>NE-Cd Ni-MH</small>	42mA	1.1V ± 0.06V
1.5V AAA/N	50mA	1.1V ± 0.06V
1.25V AA/C/D <small>NE-Cd Ni-MH</small>	125mA	1.1V ± 0.06V
1.5V AA/C/D	150mA	1.1V ± 0.06V
1.5V BUTTON CELL	1mA	1.1V ± 0.06V
3V LITHIUM	1mA	2.2V ± 0.11V
6V PHOTO	10mA	4.4V ± 0.22V
9V	10mA	6.6 ± 0.33V
12V	10mA	8.8 ± 0.44V
15V	10mA	11.0V ± 0.55V
22.5V	10mA	16.5 ± 0.83V

Power Consumption 10 mW
Sleep Mode Current 10 µA Nominal, 30 µA Maximum
Low Battery Indication 3.3V ± 0.2V
Sleep Mode Timing 3 Minutes ± 30 Seconds
Operating Temperature 32° to 109°F
(0° to 43°C)
Storage Temperature -4° to 140°F
(-20° to 60°C)
Dimensions (HWD) 3 7/8 × 2 3/8 × 1 3/16 inches
(98 × 60 × 30 mm)
Weight (without batteries) 2.8 ounces
(80 g)

Specifications are typical; individual units might vary. Specifications are subject to change without notice.

PREPARATION

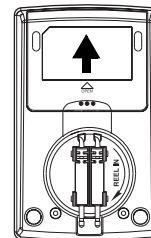
Installing Batteries

Your tester requires three AAA batteries (not supplied) for power. For the best performance and longest life, we recommend RadioShack alkaline batteries.

Cautions:

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

1. Press down, push up, and slide the the battery compartment cover in the direction of the arrow to remove it.
2. Install the batteries in the battery compartment as indicated by the polarity marks (+ and -) inside.
3. Replace the battery compartment cover.



When  appears, replace all three batteries.

Warning: Dispose of old batteries promptly and properly. Do not burn or bury them.

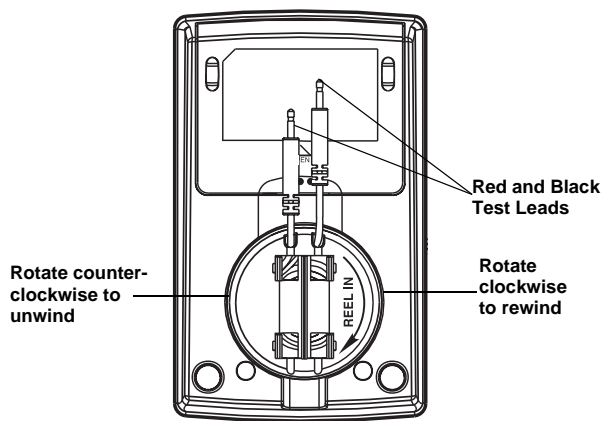
Caution: If you do not plan to use the tester for a month or longer, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

Unwinding/Rewinding the Test Leads

Cautions:

To avoid breaking or damaging the test leads:

- Do not pull on the tips of the test leads when unwinding them.
- Do not forcefully overwind the test leads into the wheel.



To unwind the test leads, carefully lift up and remove the red and black tips from the storage wheel on the back of the tester. Then grasp both test leads and carefully pull to rotate the storage wheel counterclockwise until both leads are unwound.

To rewind the test leads, hold the red and black tips straight out. While holding the tips and being careful not to twist the leads, rotate the storage wheel clockwise with your thumb until the leads are wound, then snap each tip into its bracket.

TESTING BATTERIES

Cautions:

To avoid damaging the tester:

- Always set the selector switch to the correct voltage before connecting the test leads to a battery.
- Always correctly identify battery polarity (+ and –) and voltage before testing.
- Do not touch the red test lead to the black test lead or negative post when you use the 9V or button-cell battery terminals.

Set the selection switch (see “Switch Setting Examples”) to the appropriate position corresponding to the voltage and type of the battery you want to check.

Switch Setting Examples

Battery Type	Switch Setting
1.25V AAA/N Nickel-cadmium or nickel-metal-hydride	1.25 AAA.N <small>Ni-Cd N-NiH</small>
1.5V AAA/N	1.5V AAA.N
1.25V AA/C/D Nickel-cadmium or nickel-metal-hydride	1.25 AA.C.D <small>Ni-Cd N-NiH</small>
1.5V AA/C/D	1.5V AA.C.D
Mercury, silver-oxide or alkaline button cell	1.5 BUTTON CELL
Zinc-air hearing-aid	1.5 BUTTON CELL
Button cell lithium	3 LITHIUM
6V	6 PHOTO
9V	9V
12V	12
15V	15
22.5V	22.5

Touch the red test lead to the + (positive) battery terminal and the black test lead to the – (negative) battery terminal. If the battery voltage is high enough (about one-third to one-half of the rated voltage), the tester will turn on automatically. If the tester does not turn on, press **ON**.

You also can test most batteries using these methods:

- To check a cylindrical battery, place the negative (–) terminal of the battery against the negative (–) post on the tester and touch the red test lead to the positive (+) terminal of the battery.
- To test a 9V battery, place the battery terminals against the posts on the tester.

If **FAIL** appears, replace or recharge the battery.

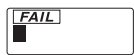
If **PASS** appears, the battery still has a charge. Read the bar graph to determine how much charge the battery has. The more bars that appear, the stronger the battery. If three bars or less appear, battery strength is marginal. Consider replacing the battery.

Button Cell and Hearing Aid Batteries

To test a 1.5V button-cell battery, set the selector switch to **1.5 BUTTON CELL**. Press the button cell or hearing aid battery into the slot at the right side of the tester with the positive (+) terminal of the battery facing up. Make sure the positive + terminal contacts the left side spring.

The more bars that appear, the stronger the battery power.

Button Cell Battery



•If **FAIL** and only one bar appear, discard the old battery and replace it with a fresh one.



•If **PASS** and two bars appear, the battery is weak.



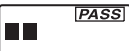
•If **PASS** and seven bars appear, the battery is fresh.

Hearing Aid Battery

- If **FAIL** and only one bar appear, discard the old battery and replace it with a fresh one.



- If **PASS** and two bars appear, the battery is weak.



- If **PASS** and four bars appear, the hearing aid battery is fresh.



Notes:

- If **READY** appears, no battery is being tested or the battery you are testing has voltage that is too low to register on the tester.
- Your tester is designed to check most types of batteries used in electronic devices and flashlights. It is not designed to test 6- and 12-volt lantern, motorcycle, marine, or other large batteries.

AUTOMATIC POWER ON/OFF

Your tester conserves power by automatically turning off about 3 minutes after the last time you checked a battery or changed settings. To turn on the tester, press **ON** or touch the tester's leads to the appropriate terminals and begin checking a battery.

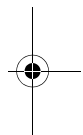
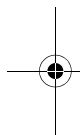
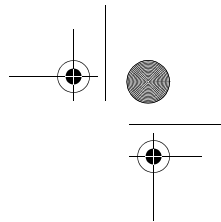
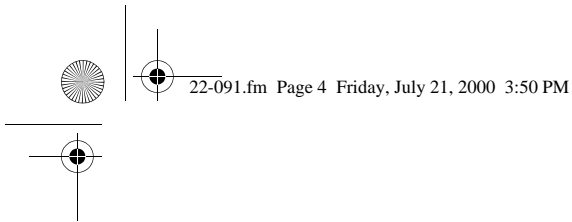
Note: If the voltage of the battery you test is too low (lower than about one-third to one-half of the rated voltage), the tester will not recognize that a battery is being tested and will not automatically turn on. Press **ON** to turn on the tester.

CARE AND MAINTENANCE

Your RadioShack Digital Battery tester is an example of superior design and craftsmanship. The following suggestions will help you care for your tester so it will serve you for years.

- Keep the tester dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.
- Use and store the tester only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.
- Keep the tester away from dust and dirt, which can cause premature wear of parts.
- Handle the tester gently and carefully. Dropping it can damage circuit boards and cases and can cause the tester to work improperly.
- Use only fresh batteries of the required size and recommended type. Batteries can leak chemicals that damage your tester's electronic parts.
- Wipe the tester with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the tester.

Modifying or tampering with the tester's internal components can cause a malfunction and might invalidate its warranty. This equipment is fully calibrated and tested. Under normal use, no further adjustment is necessary except as noted in this Owner's Manual. If your tester is not performing as it should, do not try to adjust it yourself. Take it to your local RadioShack store for assistance.



Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

We Service What We Sell

12/99

RadioShack Corporation
Fort Worth, Texas 76102

22-091
811082410B
07A00
Printed in China

